

CLAIMS

1. A receiver comprising:
an amplification means for amplifying a receiver signal based on an
5 AGC signal;
a CORDIC means for calculating a receiving amplitude of a known
symbol which is a constant amplitude; and
a control means for generating the AGC signal based on the
receiving amplitude calculated by the CORDIC means and applying the
10 AGC signal to the amplification means.
2. The receiver according to claim 1, further comprising a carrier
frequency correction means for negating carrier frequency offset, wherein
the CORDIC means detects the carrier frequency offset from a delay
15 detection output of a receiving known symbol and a correlation output with
the known symbol.
3. A receiver comprising:
a means for detecting carrier frequency offset; and
20 a CORDIC means for generating a sine wave and a cosine wave
corresponding to the detected carrier frequency offset, and conducting
frequency offset correction process.
4. A receiver comprising:
25 a CORDIC means for multiple-dividing a receiving known symbol

by a known symbol, and detecting a channel skewness; and

a CORDIC means for compensating the detected channel skewness.

5. A receiver comprising a means for conducting maximum ratio
5 synthesis diversity process while normalizing an output amplitude of a
receiver signal of each branch by a systolic array architecture wherein a
CORDIC is a basic cell.